

Fig. 1 Prior art

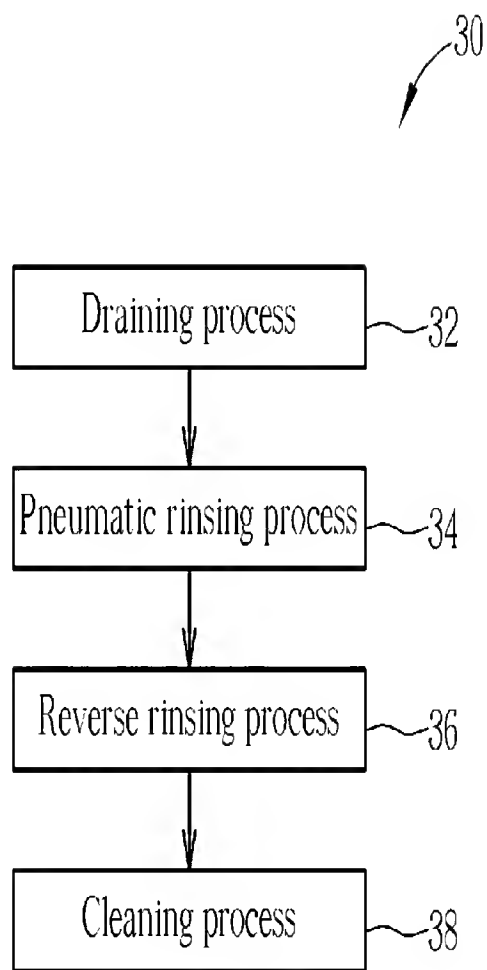


Fig. 2 Prior art

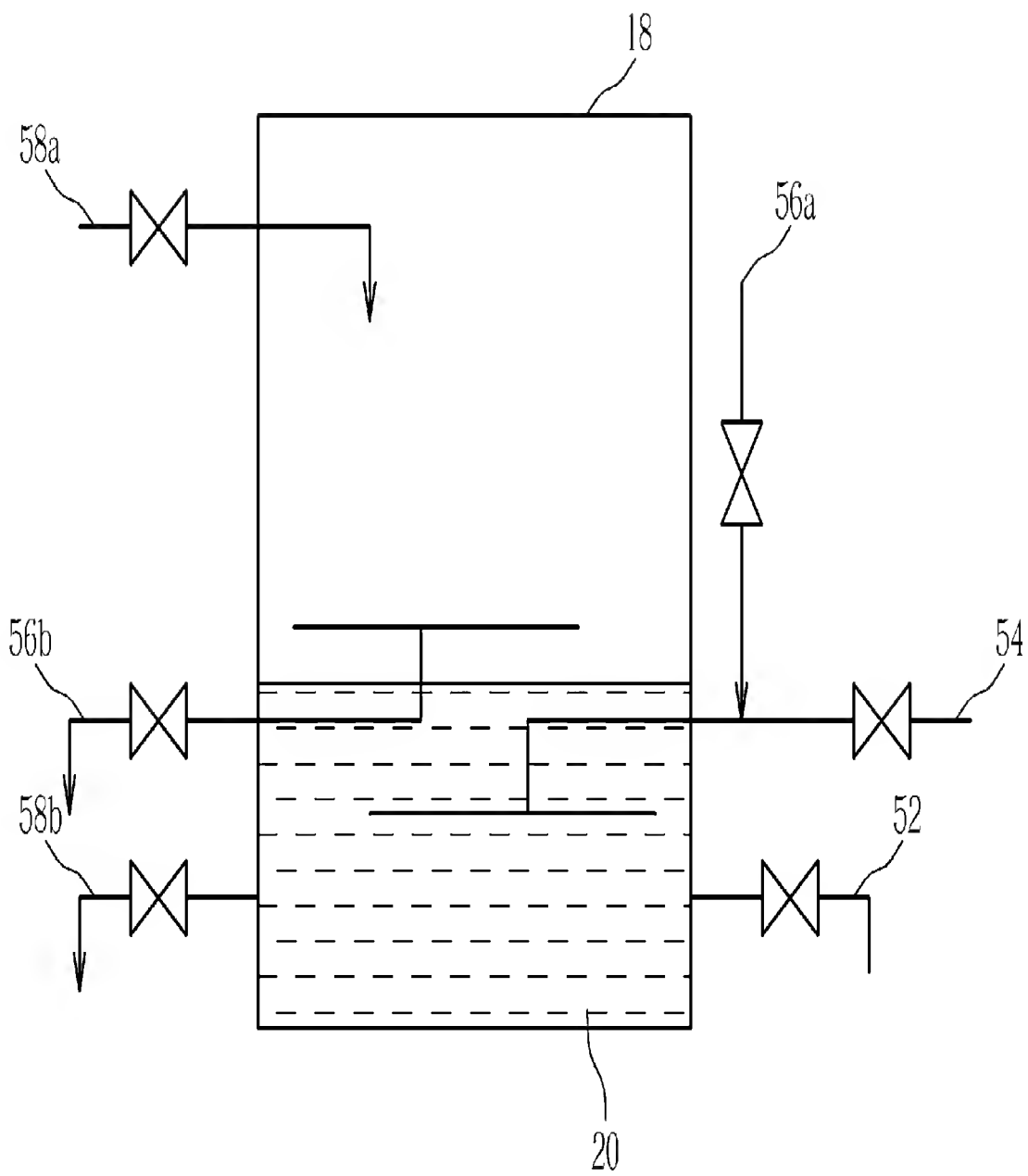


Fig. 3 Prior art

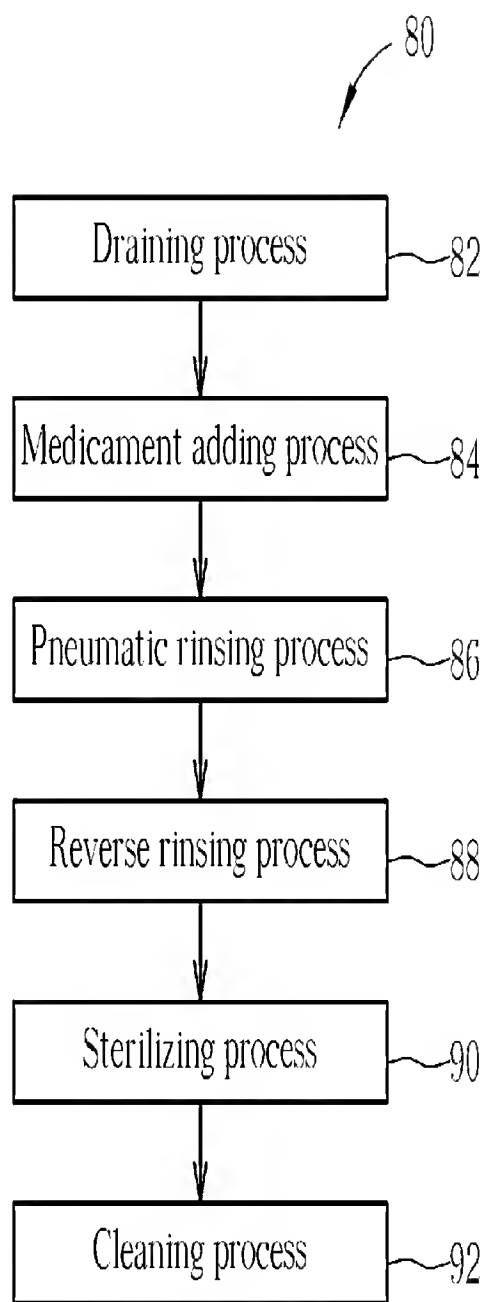


Fig. 4

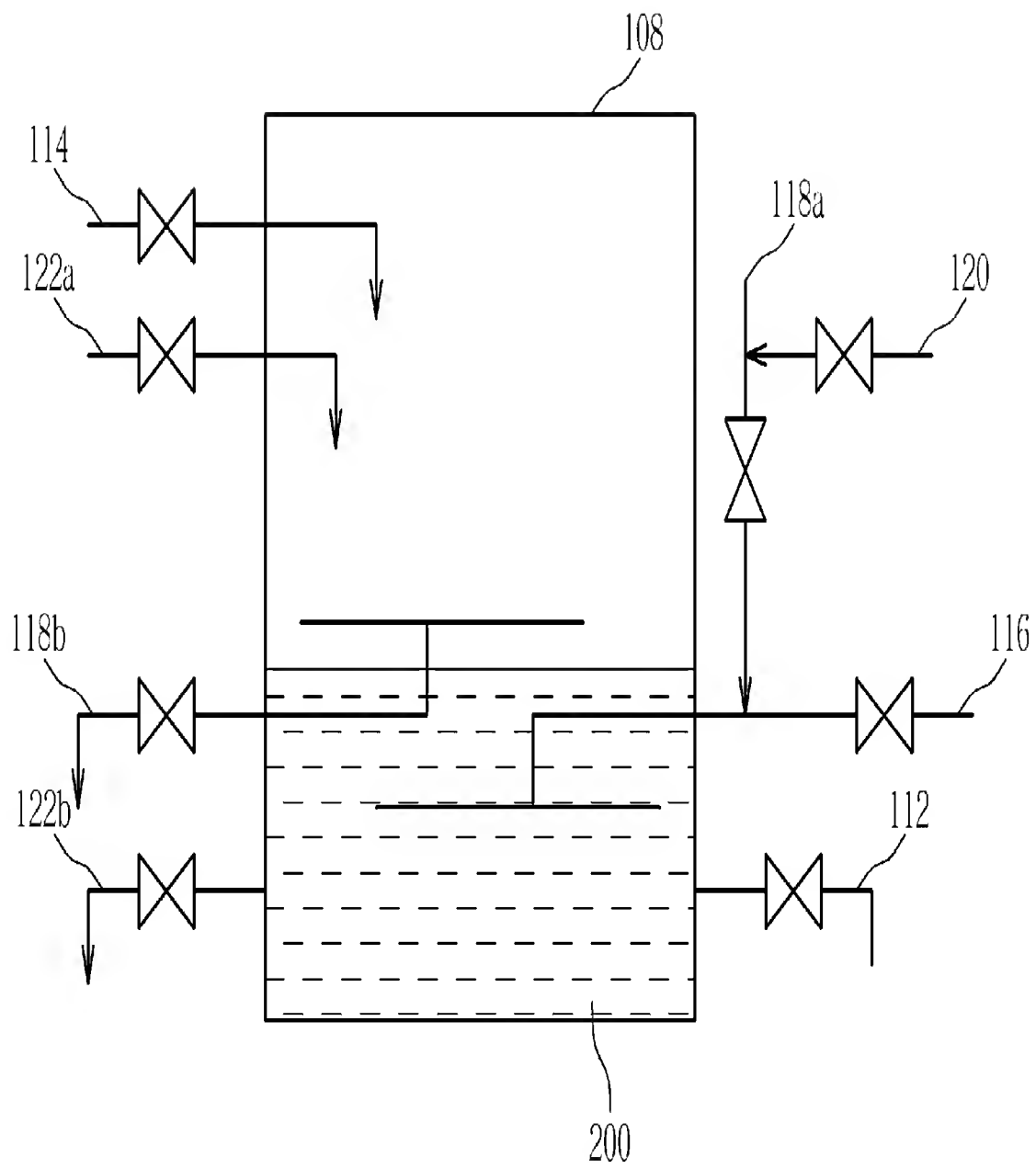


Fig. 5

PH value	Aluminum type	Effect	Flocculation condition
Under 4	$Al^{3+}$	1. neutralized charges 2. no cross-linking ability	Poor flocculation
5~6	$Al_8(OH)_{20}^{4+}$	1. Positive charges 2. electrical repulsion	No flocculation
7	Few $Al_8(OH)_{20}^{4+}$ Mostly $Al(OH)_3$	1. Neutralized charges 2. cross-linking ability	Good flocculation
Over 9	$Al(OH)_4^-$	1. negative charges 2. particle restablized	No flocculation

Fig. 6